

(Essentially similar to U.S. Department of Labor Form OSHA-20)

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MAY 28 1982



## I. PRODUCT IDENTIFICATION

PRODUCT	Argon (High Pressure Gas) <i>DPM 150</i>		
CHEMICAL NAME	Argon	SYNONYMS	---
FORMULA	Ar	CHEMICAL FAMILY	Rare Gas
TRADE NAME	---	MOLECULAR WEIGHT	39.948

## II. HAZARDOUS INGREDIENTS

Refer to Section V for TLV information.  
For mixtures of this product request the respective component Material Safety Data Sheets.

## III. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	-185.9°C (-302.6°F)	FREEZING POINT	-189.2°C (-308.6°F)
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	Gas	VAPOR PRESSURE AT 20°C.	Gas
VAPOR DENSITY (air = 1)	1.38 @ 70°F	SOLUBILITY IN WATER, % by wt.	Negligible
PER CENT VOLATILES BY VOLUME	100	EVAPORATION RATE (Butyl Acetate = 1)	NA
APPEARANCE AND ODOR	Colorless, odorless		

## IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	NA	AUTOIGNITION TEMPERATURE	NA
FLAMMABLE LIMITS IN AIR, % by volume	LOWER NA	UPPER NA	
EXTINGUISHING MEDIA	Argon cannot catch fire. Use media appropriate for surrounding fire.		

## SPECIAL FIRE FIGHTING PROCEDURES

Evacuate all personnel from danger area. Immediately deluge containers with water spray from maximum distance until cool then move containers away from fire area if without risk.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Gas cannot catch fire. Container may rupture due to heat of fire. No part of a containers should be subjected to a temperature higher than 52°C (approximately 125°F).  
Most containers are provided with a pressure relief device designed to vent contents when they are exposed to elevated temperature.

## EMERGENCY PHONE NUMBER

IN CASE OF EMERGENCIES involving this material, further information is available at all times at this telephone number:

304: 744-3487

For routine information contact your local Linde Supplier.

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UNION CARBIDE CORPORATION ■ LINDE DIVISION ■ 270 PARK AVENUE, NEW YORK, N.Y. 10017

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## V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Simple asphyxiant (ACGIH-1978)

### EFFECTS OF OVEREXPOSURE AND EMERGENCY AND FIRST AID PROCEDURES

Asphyxiation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Keep warm and at rest.

## VI. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID
Unstable	Stable	
	X	

See Section IX.

INCOMPATIBILITY (materials to avoid) Inert

HAZARDOUS DECOMPOSITION PRODUCTS

None

HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID
May Occur	Will not Occur	
	X	

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## VII. SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Shut off leak if without risk. Ventilate area of leak or move leaking container to well-ventilated area. Test area, especially confined areas, for sufficient oxygen content prior to permitting re-entry of personnel.

### WASTE DISPOSAL METHOD

Slowly release into atmosphere outdoors.

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### VIII. SPECIAL PROTECTION INFORMATION

#### RESPIRATORY PROTECTION (specify type)

Self-contained breathing apparatus where needed.

VENTILATION	LOCAL EXHAUST	
	Preferred	
	MECHANICAL (general)	
	Adequate	
	SPECIAL	---
	OTHER	---

PROTECTIVE GLOVES Preferred for cylinder handling.

EYE PROTECTION Safety glasses

OTHER PROTECTIVE EQUIPMENT Metatarsal shoes for cylinder handling.

### IX. SPECIAL PRECAUTIONS

**CAUTION:** High pressure gas. Use piping and equipment adequately designed to withstand pressures to be encountered. Can cause rapid suffocation due to oxygen deficiency. Store and use with adequate ventilation. Close valve when not in use and when empty.

Do not strike arc on cylinder. Do not ground cylinder.

OTHER HANDLING AND STORAGE CONDITIONS

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